

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A centrifugal pump for pumping liquids containing pollutions mainly in the form of solid particles, said pump comprising:

a drive unit, and

a hydraulic unit, wherein the hydraulic unit comprises a pump housing (20) and a pump impeller (12) rotationally arranged inside the housing,

the pump impeller comprising an upper (14) and a lower (16) cover disc and a number of intermediate vanes (18),

the pump housing comprising a bottom wall (22) facing the lower cover disc and having a central inlet opening (24), wherein a circular gap (30) separates a space 29 arranged between the lower disc (16) and the bottom wall (22) from said central inlet opening (24),

wherein the bottom wall (22) of the pump housing is arranged with at least one spirally swept, back flow affecting means (32, 34) on the side facing the lower cover disc (16) extending parts of or full turns around the inlet opening, and

the portion portions of said back flow affecting means (32, 34) and an upper surface of the bottom wall (22)

being located adjacent the circular gap (30) ~~is-are~~ arranged below said circular gap (30).

2. (Previously Presented) The centrifugal pump according to claim 1, wherein the back flow affecting means is arranged as grooves (32) in the bottom wall.

3. (Previously Presented) The centrifugal pump according to claim 1, wherein the back flow affecting means is arranged as ridges (34) in the bottom wall.

4. (Previously Presented) The centrifugal pump according to any one of the preceding claims, wherein a wall part of the back flow affecting means facing towards the inlet forms an angle β with the plane of the bottom wall which is in the range 85 to 95 degrees.